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1 Describing multistructured XML documents by means of delay nodes

Jacques Le Maitre

October 2006 **DocEng '06: Proceedings of the 2006 ACM symposium on Document engineering**, Volume 2006

Publisher: ACM

Full text available: Pdf (322.23 KB)

Additional Information: [full citation](#), [abstract](#), [bibTeX](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 12, Downloaded by 1 user

Multistructured documents are documents whose structure is composed of several structures. In this paper, we propose a new model of multistructured documents that allows one to map its instances into XML using a new kind ...

Keywords: XML, XQuery, lazy evaluation, multistructured documents

2 SilkRoute: A framework for publishing relational data in XML

Mary Fernández, Yana Kadliska, Dan Suciu, Atsuyuki Morishima, Wang-Chiew Tan

December 2002 **Transactions on Database Systems (TODS)**, Volume 27 Issue 4

Publisher: ACM

Full text available: Pdf (687.91 KB)

Additional Information: [full citation](#), [abstract](#), [bibTeX](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 98, Downloaded by 1 user

XML is the "lingua franca" for data exchange between interenterprise applications. We propose SilkRoute, a framework for publishing relational data in XML. In SilkRoute, the data is published in XML using the relational tables ...

Keywords: XML, XML storage systems, XQuery

3 Holistic twig joins on indexed XML documents

Haifeng Jiang, Wei Wang, Hongjun Lu, Jeffrey Xu Yu

September 2003 **VLDB '2003: Proceedings of the 29th international conference on Very large data bases**, Volume 29

- Volume 29, Volume 29

Publisher: VLDB Endowment

Full text available: Pdf (390.00 KB)

Additional Information: [full citation](#), [abstract](#), [bibTeX](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 33, Downloaded by 1 user

Finding all the occurrences of a twig pattern specified by a selection predicate in an XML document is a core operation for efficient evaluation of XML queries. How can we efficiently implement such an operation?

proposed recently as an optimal solution ...

4 Archiving scientific data

 Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan
March 2004 **Transactions on Database Systems (TODS)**, Volume 29 Issue 1

Publisher: ACM 

Full text available:  Pdf (745.61 KB)

Additional Information: [full citation](#), [abstract](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 180, Downloaded by 1 user

Archiving is important for scientific data, where it is necessary to record to verify findings based upon a specific version. Much scientific data is highly structured and has a key structure that provides ...

Keywords: Keys for XML

5 Incremental XPath evaluation

 Henrik Björklund, Wouter Gelade, Marcel Marquardt, Wim Martens
March 2009 **ICDT '09: Proceedings of the 12th International Conference on Database Technology**

Publisher: ACM 

Full text available:  Pdf (589.46 KB)

Additional Information: [full citation](#), [abstract](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 52, Downloaded by 1 user

We study the problem of incrementally maintaining an XPath query on a document after a sequence of updates. The updates we consider are node insertion, node deletion, and node relabeling. We show that downward XPath queries can be incrementally maintained ...

6 The complexity of query containment in expressive fragments of XPath

 Balder ten Cate, Carsten Lutz
September 2009 **Journal of the ACM (JACM)**, Volume 56 Issue 6

Publisher: ACM 

Full text available:  Pdf (675.16 KB)

Additional Information: [full citation](#), [abstract](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 208, Downloaded by 1 user

XPath is a prominent W3C standard for navigating XML documents that is used for query answering and static analysis. In particular, query containment has been studied for various fragments of the 1.0 version of this standard, ...

Keywords: XML, XPath, complexity, containment, satisfiability

7 On the minimization of XPath queries

 S. Flesca, F. Furfaro, E. Masciari
February 2008 **Journal of the ACM (JACM)**, Volume 55 Issue 1

Publisher: ACM 

Full text available:  Pdf (840.53 KB)

Additional Information: [full citation](#), [abstract](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 114, Downloaded by 1 user

XPath expressions define navigational queries on XML data and are issued by applications such as web browsers, search engines, and databases.

element nodes. Due to the wide use of XPath, which is embedded into s manipulating XML data, the problem of ...

Keywords: Query containment, XPath expressions, query minimization

8 Containment and equivalence for a fragment of XPath

 Jerome Miklau, Dan Suciu

January 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 1

Publisher: ACM 

Full text available:  Pdf (367.27 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 102, Download

XPath is a language for navigating an XML document and selecting a set of elements from it. XPath expressions are used to query XML data, describe key constraints, express transformations, and access remote documents. This article studies ...

Keywords: Tree pattern matching, XPath expressions, query containment

9 Relevancy-based access control and its evaluation on versioned XML documents

 Mizuho Iwaihara, Ryotaro Hayashi, Somchai Chatvichienchai, Chutiporn An

February 2007 **Transactions on Information and System Security (TIES)**

Publisher: ACM 

Full text available:  Pdf (1.00 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 73, Download

Integration of version and access control of XML documents has the benefit of allowing the management of growing archives of XML documents. Versioned XML documents provide dependencies between document nodes, but, at ...

Keywords: Access control, XML, XPath, query language, security, versioning

10 Forward node-selecting queries over trees

 Dan Olteanu

March 2007 **Transactions on Database Systems (TODS)**, Volume 32 Issue 1

Publisher: ACM 

Full text available:  Pdf (511.16 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 49, Download

Node-selecting queries over trees lie at the core of several important XML query languages, including the node-selection language XPath, the query language XQuery, and the transactional query language XUpdate. The syntactic constructs of such queries ...

Keywords: Expressiveness, XML, XPath, rewriting, streams

11 Fast XML document filtering by sequencing twig patterns

 Joonho Kwon, Praveen Rao, Bongki Moon, Sukho Lee

September 2009 **Transactions on Internet Technology (TOIT)**, Volume 9

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (1.50 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 253, Downloaded 0 times

XML-enabled publish-subscribe (pub-sub) systems have emerged as an important paradigm for distributed systems, commerce and Internet applications. In a typical pub-sub system, subscribers express their interests using a query language such as XPath or XQuery, and publishers publish events whose profiles are expressed in the XPath language. ...

Keywords: Prüfer sequences, XML filtering, selective dissemination of information, publish-subscribe, XML, XPath, XQuery

12 XRel: a path-based approach to storage and retrieval of XML documents

 August 2001 **Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (264.27 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 166, Downloaded 0 times

This article describes XRel, a novel approach for storage and retrieval of XML documents. In this approach, an XML document is decomposed into nodes and stored in relational tables according to the structure of the document. ...

Keywords: XML query, XPath, text markup, text tagging

13 A system for the static analysis of XPath

 Pierre Genevès, Nabil Layaïda

October 2006 **Transactions on Information Systems (TOIS)**, Volume 24 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (1.31 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 50, Downloaded 0 times

XPath is the standard language for navigating XML documents and returning values. This paper presents a sound and complete decision procedure for containment of XPath expressions. It also provides a sound and complete decision procedure for containment of XPath decision problems such as satisfiability, ...

Keywords: Containment, XML, XPath, equivalence, logic, query

14 FleXPath: flexible structure and full-text querying for XML

 Sihem Amer-Yahia, Laks V. S. Lakshmanan, Shashank Pandit

June 2004 **SIGMOD '04: Proceedings of the 2004 ACM SIGMOD international conference on management of data**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (437.86 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 93, Downloaded 0 times

Querying XML data is a well-explored topic with powerful database-style query languages such as SQL and XQuery set to become W3C standards. An equally compelling paradigm is full-text search on textual content. In this paper, ...

 **Typing and querying XML documents: some complexity bounds**[Luc Segoufin](#)June 2003 **PODS '03: Proceedings of the twenty-second ACM SIGMOD-S of database systems****Publisher:** ACM Full text available:  Pdf (246.23 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 23, Download

We study the complexity bound of validating XML documents, viewed as against various typing systems like DTDs, XML schemas, tree automata complexities for various fragments of XPath. ...

16 FIST: scalable XML document filtering by sequencing twig patterns[Joonho Kwon, Praveen Rao, Bongki Moon, Sukho Lee](#)August 2005 **VLDB '05: Proceedings of the 31st international conference on very large data bases****Publisher:** VLDB EndowmentFull text available:  Pdf (359.93 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 24, Download

In recent years, publish-subscribe (pub-sub) systems based on XML documents have received significant attention. In a typical pub-sub system, subscribed users specify their interest in particular topics, and each new content ...

17 Type-based XML projection[Véronique Benzaken, Giuseppe Castagna, Dario Colazzo, Kim Nguyễn](#)September 2006 **VLDB '06: Proceedings of the 32nd international conference on very large data bases****Publisher:** VLDB EndowmentFull text available:  Pdf (574.17 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 18, Download

XML data projection (or pruning) is one of the main optimization techniques used by main-memory XML query-engines. The underlying idea is quite simple: it consists in pruning the subtrees of D ...

18 XPath leashed [Michael Benedikt, Christoph Koch](#)December 2008 **Computing Surveys (CSUR)**, Volume 41 Issue 1**Publisher:** ACM Full text available:  Pdf (649.70 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 441, Download

This survey gives an overview of formal results on the XML query language, focusing on important fragments of XPath, focusing on subsets of XPath 1.0. We then compare the XPath and its fragments compared to other ...

Keywords: XML, XPath**19 Succinct ordinal trees with level-ancestor queries** [Richard F. Geary, Rajeev Raman, Venkatesh Raman](#)

October 2006 **Transactions on Algorithms (TALG)**, Volume 2 Issue 4

Publisher: ACM  Request Permissions

Full text available:  Pdf (472.00 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 66, Download

We consider *succinct* or space-efficient representations of trees that efficiently support various operations. We focus on static *ordinal* trees, that is, arbitrary static root node are ordered. ...

Keywords: Succinct data structures, XML document representation

20 Query efficiency in probabilistic XML models

 Benny Kimelfeld, Yuri Kosharovsky, Yehoshua Sagiv

June 2008 **SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on management of data**

Publisher: ACM  Request Permissions

Full text available:  Pdf (1.04 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 125, Download

Various known models of probabilistic XML can be represented as instances of probabilistic documents have, in addition to ordinary nodes, *distributional* nodes that generate a random ...

Keywords: approximate query evaluation, probabilistic databases, probabilistic processing

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